

R307. Environmental Quality, Air Quality.

R307-347. Large Appliance Surface Coatings.

R307-347-1. Purpose.

The purpose of this rule is to reduce volatile organic compound (VOC) emissions from large appliance surface coating operations.

R307-347-2. Applicability.

~~[R307-347 applies to large appliance coating operations, including related cleaning activities, that have the potential to emit 2.7 tons a year of VOC and that are located in Box Elder, Cache, Davis, Salt Lake, Tooele, Utah, and Weber counties.]~~

(1) R307-347 applies to sources located in Cache, Davis, Salt Lake, Utah and Weber counties that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

(2) In Box Elder and Tooele counties, R307-347 applies to the following sources:

(a) Existing sources as of February 1, 2013, that have the potential to emit 5 tons per year or more of VOC, including related cleaning activities; and

(b) New sources as of February 1, 2013, that have the potential to emit 2.7 tons per year or more of VOC, including related cleaning activities.

R307-347-3. Exemptions

(1) The requirements of R307-347 do not apply to the following:

- (a) Stencil coatings;
- (b) Safety-indicating coatings;
- (c) Solid-film lubricants;
- (d) Electric-insulating and thermal-conducting coatings;
- (e) Touch-up and repair coatings; or
- (f) Coating application utilizing hand-held aerosol cans.

R307-347-4. Definitions.

The following additional definitions apply to R307-347:

"Air dried coating" means coatings that are dried by the use of air or a forced warm air at temperatures up to 194 degrees Fahrenheit.

"Baked coating" means a coating that is cured at a temperature at or above 198 degrees Fahrenheit.

"Coating" means a protective, functional, or decorative film applied in a thin layer to a surface. This term often applies to paints such as lacquers or enamels. It is also used to refer to films applied to paper, plastics, or foil.

"Extreme performance coatings" means coatings designed for harsh exposure or extreme environmental conditions.

"Large appliances" means doors, cases, lids, panels, and interior support parts of residential and commercial washers, dryers, ranges, refrigerators, freezers, water heaters, dishwashers, trash compactors, air conditioners, and other similar products.

R307-347-5. Emission Standards.

Each owner or operator shall not apply coatings with a VOC content in excess of the amounts specified in Table 1 or shall use an add-on

control device as specified in R307-347-7.

TABLE 1

Large Appliance Coating Limitations
(values in pounds VOC per gallon of coating, minus water and exempt
solvents (compounds not classified as VOC), as applied)

COATING CATEGORY	VOC EMISSION RATES	
	Baked	Air Dried
General, one component	2.3	2.3
General, multi-component	2.3	2.8
Extreme high gloss	3.0	2.8
Extreme performance	3.0	3.5
Heat resistance	3.0	3.5
Solar absorbent	3.0	3.5
Metallic	3.5	3.5
Pretreatment coatings	3.5	3.5

R307-347-6. Work Practices and Recordkeeping.

- (1) The owner or operator shall:
 - (a) Store all VOC-containing coatings, thinners, and cleaning materials in closed containers;
 - (b) Minimize spills of VOC-containing coatings, thinners, and cleaning materials;
 - (c) Clean up spills immediately;
 - (d) Convey any coatings, thinners, and cleaning materials in closed containers or pipes;
 - (e) Close mixing vessels that contain VOC coatings and other materials except when specifically in use; and
 - (f) Minimize usage of solvents during cleaning of storage, mixing, and conveying equipment.
- (2) All sources subject to R307-347 [The owner or operator] shall maintain records from the manufacturer that demonstrate[es]ing compliance with all provisions of R307-347 on an annual basis. [the emission standards of R307-348-5.]
 - (a) Records shall include, but not be limited to, inventory and product data sheets of all coatings and solvents subject to R307-352.
 - (b) These records shall be made available to the director upon request.
- (3) No person shall apply any coating unless the coating application method achieves a demonstrated 65% transfer efficiency. The following applications achieve a minimum of 65% transfer

efficiency and shall be operated in accordance with the manufacturers specifications:

- (a)Electrostatic application;
- (b)Electrodeposition;
- (c)Brush coat;
- (d)Flow coat;
- (e)Roll coat;
- (f)Dip coat;
- (g)High-volume, low-pressure (HVLP) spray; or
- (h)Other application method capable of achieving at least 65% transfer efficiency, as certified by the manufacturer.

(4) All persons shall perform solvent cleaning operations with cleaning materials having VOC content of 0.21 pounds per gallon or less.

R307-347-7. Optional Add-On Controls.

(1) The owner or operator may install and maintain an incinerator, carbon adsorption, or any other add-on emission control device, provided that the emission control device will attain at least 90% efficiency performance.

(2) The owner or operator of a control device shall provide [certification]documentation [from the manufacturer] that the emission control system will attain the require[d]ments of R307-347-7 [efficiency performance].

(3) Emission control systems shall be operated and maintained in accordance with the manufacturer recommendations. The owner or operator shall maintain for a minimum of two years records of operating and maintenance sufficient to demonstrate that the equipment is being operated and maintained in accordance with the manufacturer recommendations.

R307-347-8. Compliance Schedule.

(1) All sources in Davis and Salt Lake counties are subject to this rule as of the effective date of this rule.

(2) Sources in Box Elder, Cache, Tooele, Utah and Weber counties shall be in compliance with this rule by January 1, 2014.

KEY: air pollution, emission controls, large appliance, surface coating

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Authorizing, and Implemented or Interpreted Law: 19-2-104(1) (a)